

Application No.: 10/782326
Docket No.: HP0085USNA

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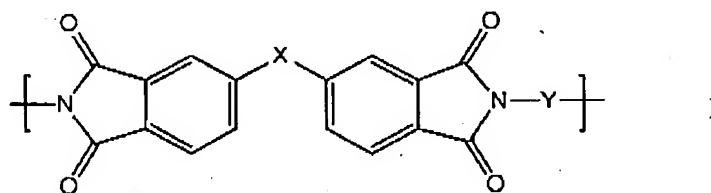
Amendments to Specification

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The present invention is directed to a polymer solution comprising a polyimide component and an organic solvent. The polyimide component is represented by formula I:



where X is O, S(O)₂ or C(CF₃)₂, or a mixture of two or three of O, S(O)₂, and C(CF₃)₂;

where Y is a diamine component selected from a group consisting of m-phenylenediamine (MPD), 3,4'-diaminodiphenyl ether (3,4'-ODA), 4,4'-diamino-2,2'-bis(trifluoromethyl)biphenyl (TFMB), 3,3'-diaminodiphenyl sulfone (3,3'-DDS), bis-(4-(4-aminophenoxy)phenyl)sulfone (BAPS) and 9,9-bis(4-aminophenyl) fluorene (FDA);

provided however that:

- a. if X is O, then Y is not m-phenylenediamine (MPD), bis-(4-(4-aminophenoxy)phenyl)sulfone (BAPS) or 3,4'-diaminodiphenyl ether (3,4'-ODA);
- b. if X is S(O)₂, then Y is not 3,3'-diaminodiphenyl sulfone (3,3'-DDS); and
- c. if X is C(CF₃)₂, then Y is not m-phenylenediamine (MPD), bis-(4-(4-aminophenoxy)phenyl)sulfone (BAPS), 9,9-bis(4-aminophenyl) fluorene (FDA), or 3,3'-diaminodiphenyl sulfone (3,3'-DDS).

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For purposes of the present invention, a particular group of diamines was discovered to be particularly useful in the preparation of water resistant polyimide solutions and pastes. These diamines are m-phenylenediamine (MPD), 3,4'-diaminodiphenyl ether (3,4'-ODA), 4,4'-diamino-2,2'-bis(trifluoromethyl)biphenyl (TFMB), 3,3'-diaminodiphenyl sulfone (3,3'-DDS), bis-(4-(4-aminophenoxy)phenyl)sulfone (BAPS) and 9,9-bis(4-aminophenyl) fluorene (FDA).